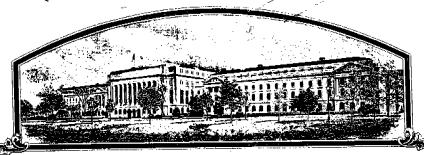
Allost:



7600009

HHE UNITED STATES OF AMIESTO

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Agripro, Incorporated

Colhereus, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Shawnee'

In Lestimony Waterrot, I have hereunto set my hand and caused the seal of the Plaut Variety Protection Office to be affixed at the City of Washington

this 14th day of May in the year of our Lord one thousand nine hundred and seventy-six

Earl L But

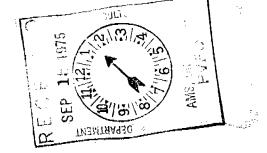
FORM APPROVED OMB NO. 40-R3712

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse. 1. VARIETY NAME OR TEMPORARY	2. KIND NAME		FOR OFFICIAL USE ONLY		
DESIGNATION					
SHAWNEE	SOYBE		76000	709	
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Bo	tanical)	9.15.75	1:30 P.M.	
	GRAMINE		FEE RECEIVED	BALANCE DUE	
GLYCINE MAX	5. DATE OF DETERM	MINATION	1 3 20.00	\$	
	1073		\$ 2.50.00	\$	
6. NAME OF APPLICANT(S)	1973	ad No. or R.F.D. No.,	\$ 250.00	8. TELEPHONE AREA	
AGRIPRO, INC.	Code)	D. Box 1668	2.0	CODE AND NUMBER	
·		s, Iowa 500	10	(515) 232-069:	
		T (
9. IF THE NAMED APPLICANT IS NOT A ORGANIZATION: (Corporation, partnersh		10. STATE OF INCOR	PORATION	PORATION	
Corporation 12. Name and mailing address of app		Iowa		1973	
13. CHECK BOX BELOW FOR EACH ATTA (X) 13A. Exhibit A, Origin and B (X) 13B. Exhibit B, Botanical De (X) 13C. Exhibit C, Objective De (X) 13D. Exhibit D, Data Indication	reeding History of the escription of the Variet scription of the Variet	у	n 52 of the Plant Va	riety Protection Act.)	
X 13E. Exhibit E, Statement of					
14A. Does the applicant(s) specify the (See Section 83(a) (If "Yes,")	answer 14B and 14C b	elow.)	YES NO R	15	
14B. Does the applicant(s) specify t limited as to number of generat		beyond breed	er seed?	rations of production	
The applicant declares that a viable ance of a certificate and will be re					
The undersigned applicant(s) of the uniform, and stable as required in Plant Variety Protection Act.		-	•	=	
Applicant is informed that false re	epresentation herein ca	n jeopardize protec	tion and result in pe	nalties.	
September 11, 197	<u> 5</u>	La Jayre (si	M. Ellingser GNATURE OF APPLICA	NT)	
(DATE)		(<u>\$</u> 1	GNATURE OF APPLICA	NT)	

INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

SHAWNEE

"Exhibit A"

Origin and Breeding History of the Variety:

- 1. 'Shawnee' originated in Iowa from a hand pollinated cross of 'Corsoy'* 'C1423'. The crossing was performed in 1968. The F1, F2, and F4 generations were advanced in Puerto Rico winter nursery. The F3 generation and F5 plant rows were grown in Iowa. Early generations were advanced by single seed descent. Shawnee was F4 derived and was yield tested in 1971 through 1974.
- 2. In 1972 single plants were selected and grown in purification plant rows during 1973. Only rows conforming to a standard type were harvested and bulked. The genetic makeup of the variety was stabilized in the seventh generation.

SHAWNEE

"Exhibit B"

Botanical Description of the Variety:

'Shawnee' is a northern, indeterminate soybean variety of Group II maturity. It matures approximately 3 days later than Corsoy in Iowa. It adapts very well to areas of the Midwest where 'Corsoy' and 'Amsoy 71' are grown.

Shawnee has purple flowers and gray pubescence. The seed is yellow in color and has a yellow hilum. Shawnee shows resistance to Race 1 of Phytophthora Root Rot.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.	TCINE MAX)
NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
AGRIPRO, INC.	PVPO NUMBER
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)	1600007
	VARIETY NAME OR TEMPORARY DESIGNATION
P. O. Box 1668	
Ames, Iowa 50010	Shawnee
Place the appropriate number that describes the varietal char-	acter of this variety in the boxes below.
1. SEED SHAPE:	
1 1 = SPHERICAL 2 = SPHERICAL 3 = ELONGAT	E 4 = OTHER (Specify)
2, SEED COAT COLOR:	¹SHADE:
1 = YELLOW 2 = GREEN 3 = BROWN	4 = BLACK 1 2 1 = LIGHT 2 = MEDIUM 3 = DARK
5 = OTHER (Specify) 3. SEED COAT LUSTER:	4. SEED SIZE
1 T = DULL 2 = SHINY	1 8 GRAMS PER 100 SEEDS
5. HILUM COLOR:	SHADE
2 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY	5 = IMPERFECT 1 = 1 GHT 2 = MEDIUM 3 = DARK
6 = BLACK 7 = OTHER (Specify)	BLACK 12 1 = LIGHT 2 = MEDIUM 3 = DARK
6. COTYLEDON COLOR:	7. LEAFLET SIZE (See Reverse):
1 l=YELLOW 2 = GREEN	2 1 = SMALL 2 = MEDIUM 3 = LARGE
	2 1 SMALL 2 SMEDIUM 3 SLARGE
8. LEAFLET SHAPE:	
1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 =	ELLIPTICAL 5 = OTHER (Specify)
9. LEAF COLOR (See reverse):	10. FLOWER COLOR:
3 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK	GREEN 1 = WHITE 2 = PURPLE 3 = OTHER (Specify)
11. POD COLOR:	12: POD SET:
1 1 = TAN 2 = BROWN 3 = BLACK	1 = SCATTERED 2 = CONCENTRATED
13. PLANT PUBESCENCE COLOR:	SHADE:
1 = GRAY 2 = BROWN 3 = OTHER (Specify)	1 1 = LIGHT 2 = MEDIUM 3 = DARK
14. PLANT TYPES (See Reverse):	15. PLANT HABIT:
3 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE	1 = DETERMINATE 2 = INDETERMINATE
16. HYPOCOTYL COLOR:	3 = OTHER (Specify) 17. SEED PROTEIN:
	1=A 2=B
The state of the s	2 = 0 3 = 1 4 = 11 5 = 111
	7 = V 8 = VI 9 = VII 10 = VIII
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT	T (Growth Chamber) AT 25° C. (Place a zero in first box
(e.g. 0 2) when size is 9 mm. or less.) NOT TESTED	
MM. LENGTH OF SEEDLING OF COTYLEDON	MM. WIDTH OF COTYLEDON
21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	
O BACTERIAL O SOYBEAN O DOWNY O CYST	PURPLE O POD AND O ROOT STAIN STEM BLIGHT KNOT
FROGEYE STEM PHYTO-	STAIN STEM BLIGHT KNOT BROWN TARGET D BROWN
CANKER (Race 1)	STEM ROT SPOT SPOT
O BLIGHT O WILDFIRE O RHIZOCTONIA O	OTHER (Specify)

SHAWNEE

"Exhibit D"

DATE INDICATIVE OF NOVELTY:

'Shawnee' is most similar to 'Corsoy', except it is (1) 3 days later and (2) resistant to Phytophthora Root Rot (Race 1).

AGRIPRO 1972 Iowa Tests:

	<u>Yield</u>	<u>Maturity</u>	<u>Height</u>	<u>Lodging</u>
Shawnee Corsoy	44.8 41.2	9 - 16 9 - 13	37.0 36.3	1.7 1.7
Mean Difference Std. Error of	3.6	3.0	0.7	0.0
Mean Difference	1.3	0.8	0.3	0.3

AGRIPRO 1973 Iowa Tests:

	<u>Yield</u>	<u>Maturity</u>	<u>Height</u>	<u>Lodging</u>
Shawnee Corsoy	50.7 43.7	9-24 9-21	36.3 34.7	2.8 3.0
Mean Difference Std. Error of	7.0	3.2	1.4	0.2
Mean Difference	1.1	0.4	0.4	0.6

AGRIPRO 1974 Iowa Tests:

	<u>Yield</u>	<u>Maturity</u>	<u>Height</u>	Lodging
Shawnee Corsoy	37.0 37.8	10-3 10-1	38.8 38.0	1.8 2.3
Mean Difference Std. Error of	0.8	2.4	0.8	0.5
Mean Difference	1.2	0.3	0.4	0.2

SHAWNEE

"Exhibit E"

STATEMENT OF APPLICANT'S OWNERSHIP

AGRIPRO, INC. purchased Improved Variety
Research and their genetic material in 1973. Their
records show, and AGRIPRO believes, they were the
original and first breeder of 'Shawnee' variety of
soybeans for which we are soliciting a certificate
of protection.

2. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.					
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY		
Plant shape	Amsov 71	Petiole angle	Amsov 71		
Leaf shape	Amsoy 71	Seed size	Amsoy 71		
Leaf color	AMETODO SE CATSOY	Seed shape	Amsov 71		
Leaf surface	TORT PRO 20 Cavage	Seedling pigmentation	Amsov 71		

23. GIVE DATA FOR SU	23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:								
VARIETY	NO. OF DAYS	LODGING	PLANT	LEAF SIZE		CONTENT		AVERAGE NO.	
	TO MATURITY	SCORE	HEIGHT (CM)	Width	Length	Protein	Oil	OF PODS PER PLANT	IODINE NO.
Submitted	119	2.1	94.7	7.8	10.0		%	48	
Name of similar variety Corsoy	116	2.3	92.2	7.0	9.5			45	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	''Ada''
Medium Green	"Wilkin"
Dark Green	''Swift''

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	''Anoka''

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	''Adelphia''

Improved Variety Research, Inc.

Harry H. Stine Rt. 3, Adel, Jowa 50003

Pala McCubbin
Rt. 5, Alarshalitown, Jowa 50158
Vice President

Willard C. Latham Alexander, Iowa 50420 Secretary, Treasurer

Harold A. Folkerts Rt. 2, Allison, lowa 50602 Director, Equipment Designer

To whom it may concern:

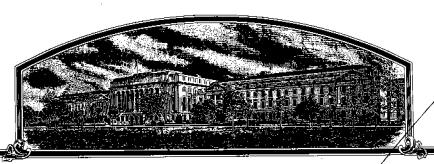
This is to inform you that as of June 1, 1973, the following assets of Improved Variety Research, Inc. have been purchased by Agripro, Inc., according to the terms of a contract:

- 1. All soybean seed and genetic and research materials, processes and formulae owned, used or developed by IVR wherever situated, whether in the form of seed stocks, growing plants, or genetic materials.
- 2. All records and memoranda used or maintained in connection with breeding, testing, increasing or any other phase of the soybean seed breeding program.
- 3. All contracts, agreements, leases and rights in connection with breeding, increasing, testing, marketing and producing soybean seed strains, varieties or brands, including variety protection rights.
- 4. All equipment, supplies, and materials including tractors, trucks, planters, cultivators, threshers, seed bags, office equipment.
- 5. The brand or trade name IVR and its good will.

Sincerely,

Willack C. Latton

Willard C. Latham, Secretary-Treasurer Improved Variety Research, Inc.



HHE UNIVERD STRATES OF ANTERIO

TO ALL TO WHOM THESE: PRESENTS SHALL COME;

Agripro, Incorporated

Manereus, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE/THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-YEARS FROM THE DATE OF THIS GRANT, SUBJECT CANT(S) FOR THE TERM OF TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A JUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

[SEAL]

Allest:

Plant Variety Protection Office Grain Division Agricultural Marketing Service In Lestimony Wanercot, I have hereunto set my hand and caused the seal of the **Elant** Variety Protection Office to be affixed

at the City of

this day of in the year of our Lord one thousand nine hundred and

Secretary of Agriculture

PV APPLICATION # 7600009 SOYBEAN 'SHAWNEE'

SUMMARY OF EXHIBITS

EXHIBIT	T A.
	GENEOLOGY & PLANT BREEDING METHOD PROVIDED
,	THE CENETIC MAKEUP OF SHAWNEE WAS STABILIZED
	IN THE 7IH GENERATION.
- The state of the	
EXHIBIT	-B.
	THE VARIETY DESCRIPTION IS ADEQUATE & ARREES
	NITH EXHIBITS C & D.
EXHIBIT	T.C.
1.	GOOD - MOST ITEMS RECORDED
	ACREES WITH EXHIBITS B&D.
· · · · · · · · · · · · · · · · · · ·	
EXHIBI	I D. (USE FOR OFFICIAL JOURNAL NOVELTY STATEMEN
_	SHANNEE IS MOST SIMINAR TO CORSOY, EXCEPT IT IS
· · · · · · · · · · · · · · · · · · ·	IS LATER IN MATURITY AND IS RESISTANT TO PHYTOPHTHORA
	ROT (RACE 1) WHEREAS CORSOY IS SUSCEPTIBLE TO THIS DISEAS
V	D 1/
EXHIBIT	E OK
· · · · · · · · · · · · · · · · · · ·	
der er e	Issued
- No. 2 (18 × 18 × 18 × 18 × 18 × 18 × 18 × 18	